

## **SCIENCE** **First Grade**

### **LIFE SCIENCE STANDARDS**

#### **Cell Structure and Function**

*The student will investigate the structure and function of plant and animal cells.*

<b>Key</b>	<b>Reporting Category</b>		<b>Project WET Activity</b>
<b>I</b>		Use magnifiers to observe smaller parts of larger objects.	
<b>D</b>		Observe and describe what happens when an object loses a part.	

#### **Interactions Between Living Things and Their Environment**

*The student will investigate how living things interact with one another and with nonliving elements of their environment.*

<b>D</b>		Use the senses to explore the environment.	Stream Sense, 191
<b>I</b>		Collect information about organisms that occupy specific environments.	
<b>I</b>		Provide examples of pollutants in a specific environment.	A-maze-ing Water, 219 Water Match, 51

#### **Food Production and Energy for Life**

*The student will study the basic parts of plants, investigate how plants produce food, and discover that plants and animals use food to sustain life.*

<b>I</b>		Recognize the basic needs of living things (e.g., food, water, sunlight, and air).	The Life Box, 76 Aqua Bodies, 63
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#### **Diversity and Adaptation Among Living Things**

*The student will understand that living things have characteristics that enable them to survive in their environment.*

<b>I</b>		Observe and note differences among plants and animals of the same kind.	
<b>D</b>		Recognize the environment in which an organism is typically found.	

#### **Earth and Its Place in the Universe**

*The student will investigate the structure of the universe.*

<b>D</b>		Distinguish between objects that appear in the day and nighttime sky.	
<b>I</b>		Recognize that the moon is the closest object in the sky.	
<b>I</b>		Recognize that there are tools for observing objects in the day and nighttime sky.	
<b>D</b>		Observe and illustrate the position of the sun at different times of the day.	
<b>I</b>		Recognize that shadows change length and position during the course of a day.	

#### **Atmospheric Cycles**

*The student will investigate the relationships among atmospheric conditions, weather, and climate.*

<b>D</b>		Recognize that weather conditions are constantly changing.	
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#### **KEY**

**I = Introduced   D = Developing   A = State Assessed   M = Mastered**

#### **REPORTING CATEGORY**

**SF = Structure & Function of Organisms   ME = Motion & Forces, Forms of Energy   E = Ecology   M = Matter**  
**LC = Life Cycles & Biological Change   ER = Earth Features & Resources   SC = Space, Weather, & Climate**

**Note: "A" indicates the state curriculum (CRT) assessment only.**  
**All the skills ("I"... "D"... "A"... "M") are addressed in the classroom assessment.**

<b>I</b>		Describe weather patterns associated with the seasons.	A House of Seasons, 155
<b>D</b>		Associate temperature, precipitation, and wind conditions with various types of weather.	
<b>I</b>		Identify the appropriate tool for measuring temperature, precipitation, and wind speed/direction.	

### Earth Features

*The student will understand that the earth has many geological features that are constantly changing.*

<b>I</b>		Distinguish between land and water environments.	
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### Earth Resources

*The student will investigate the properties, uses, and conservation of earth's resources.*

<b>D</b>		Use observable properties to distinguish among a variety of earth materials.	
<b>D</b>		Identify ways that earth resources benefit man.	

## PHYSICAL SCIENCE STANDARDS

### Forces and Motion

*The student will investigate the effects of force on the movement of objects.*

<b>D</b>		Observe and describe how the movement of an object can be changed (e.g., push/pull, fast/slow).	
<b>I</b>		Recognize objects that are balanced.	

### Structure and Properties of Matter

*The student will investigate the characteristic properties of matter.*

<b>D</b>		Compare objects according to weight, length, and size.	
<b>I</b>		Distinguish between solids and liquids.	

### Interactions of Matter

*The student will investigate the interactions of matter.*

<b>I</b>		Observe and describe changes that can occur when two materials interact.	
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### Energy

*The student will investigate energy and its uses.*

<b>D</b>		Describe the effect of the sun's energy on different materials.	
<b>D</b>		Classify sounds according to their basic characteristics (e.g., loud/soft, natural/man/made).	

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